

Scienta-Omicron high-end UHV SPM modern instrumentation

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Scienta-Omicron is the leading innovator in Surface Science. The company provides top capabilities for the research community through its UHV technology leadership in scanning probe microscopy, electron spectroscopy, and thin film deposition. Scienta-Omicron was always known as the innovative manufacturer of scanning probe microscopes providing leading edge technology for forefront research and science, including unrivalled quality and reliability standards to enable the customers to do successful research.

Today Scienta-Omicron offers a wide variety of SPM techniques for UHV at variable temperatures (from 25 K to 1500 K), for low temperature applications (down to 0.5 K), for high-magnetic field research (up to 3T), or for large samples (up to 4" in diameter). These instruments are available as stand-alone components, within turn-key UHV SPM systems, and also as parts of multi-technique solutions tailored to the customer needs from one source with worldwide sales and service groups.

In this talk we will consider new UHV SPM technologies and instruments from Scienta-Omicron, both for basic STM and spectroscopy, and for AFM with QPlus and beam-deflecting techniques for hi-end surface research.